20T120" 0096/00E

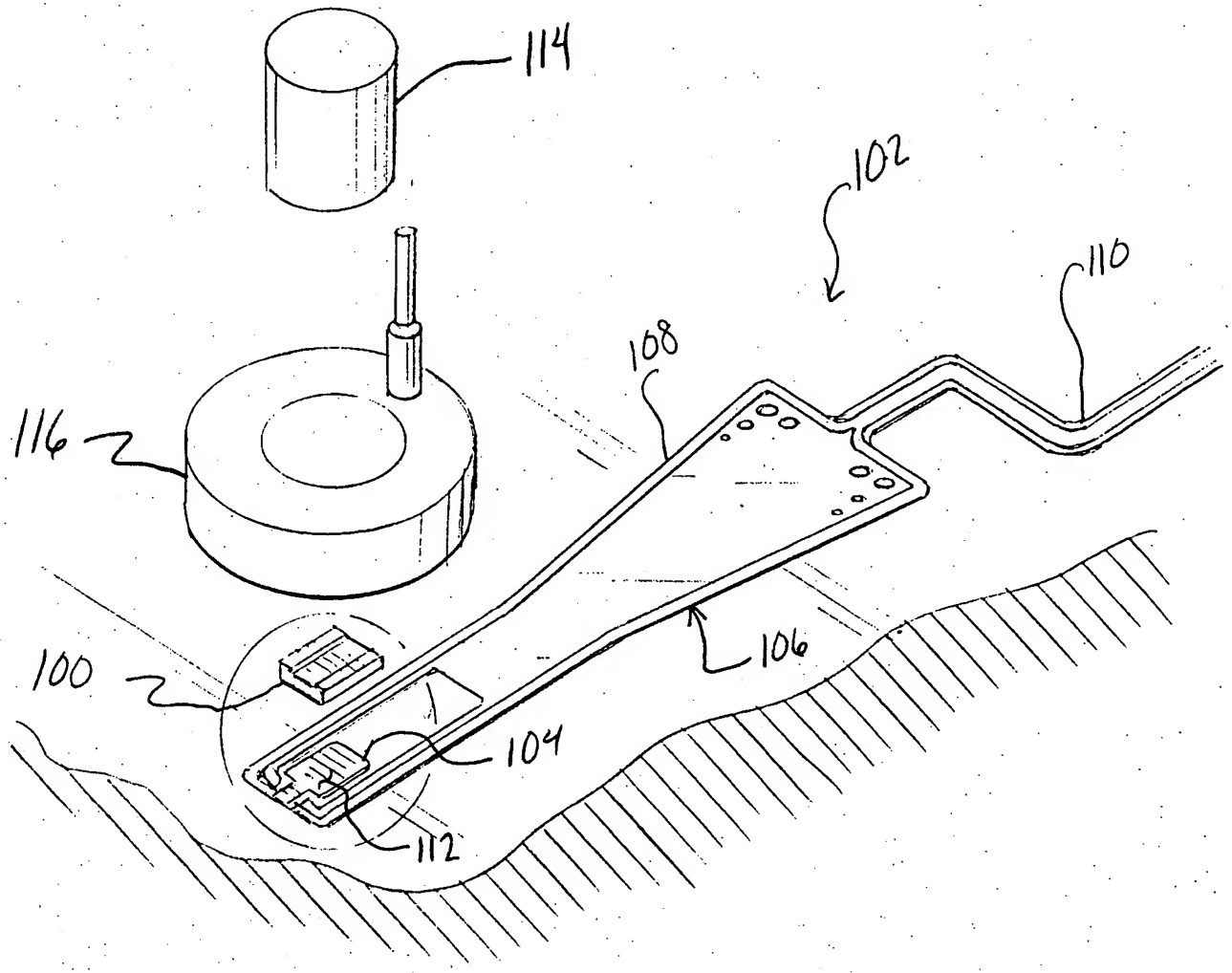

FIG. 1

20120905.0005.2001

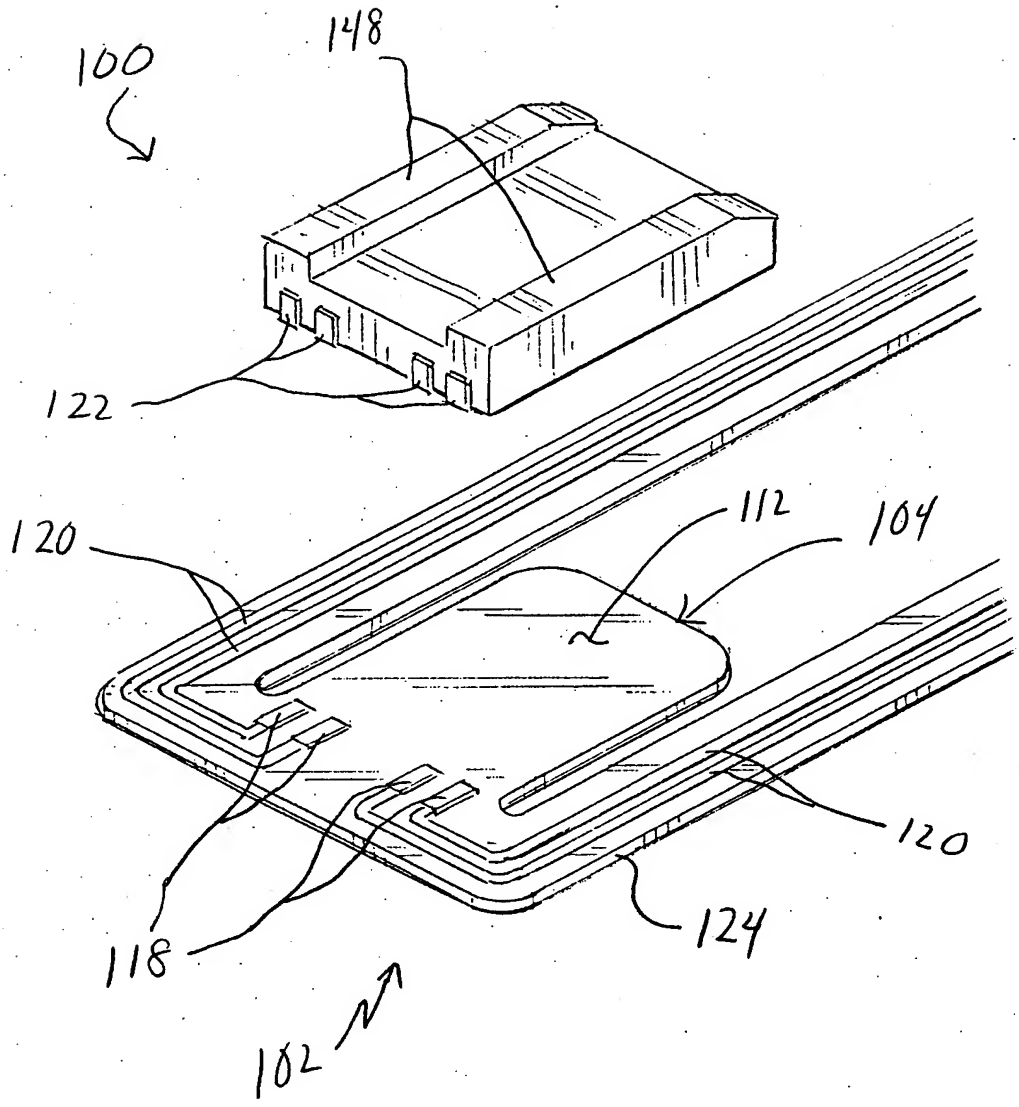

FIG. 2

20120 0096009

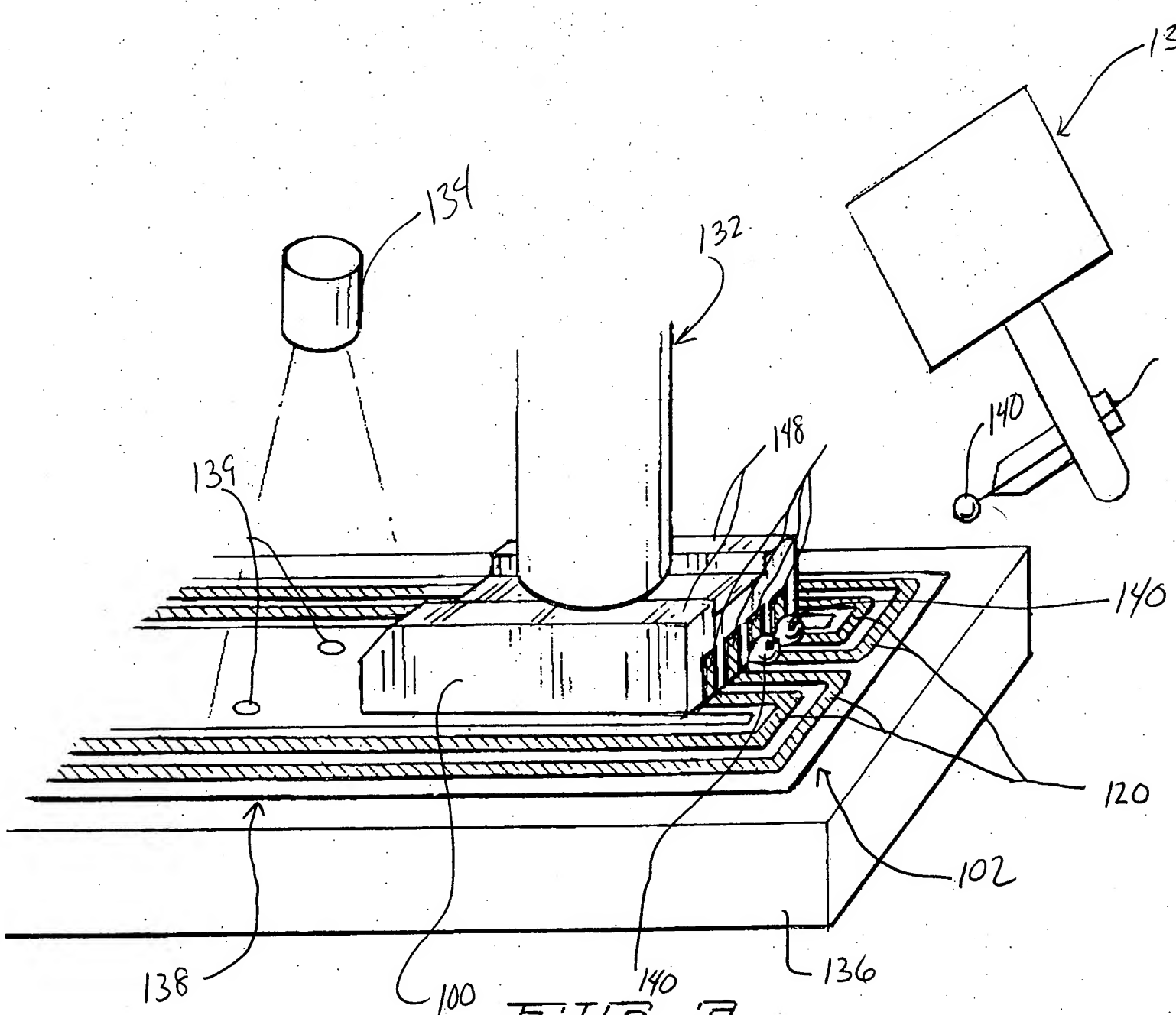

FIG. 3

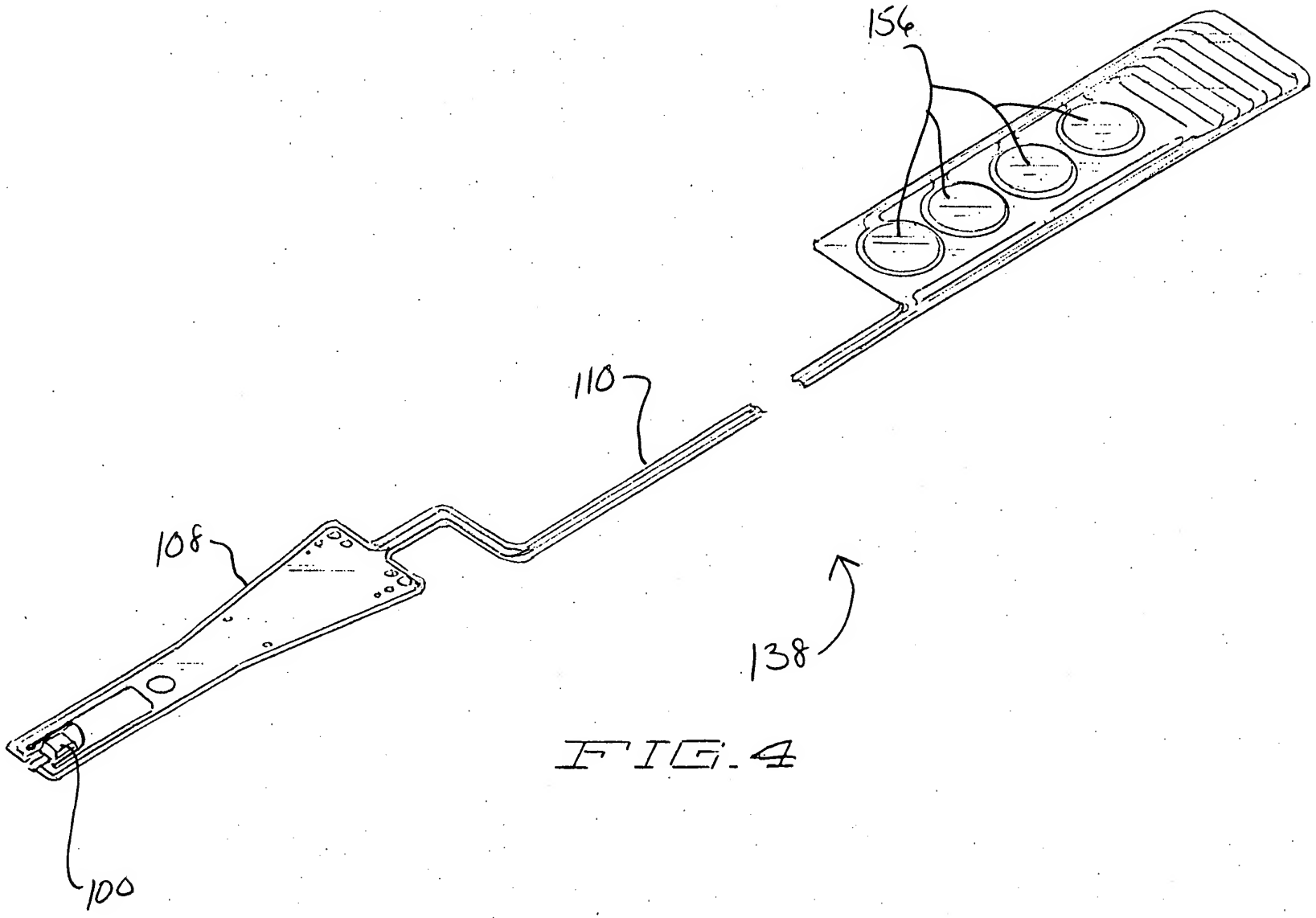

FIG. 4

20112P 009562001

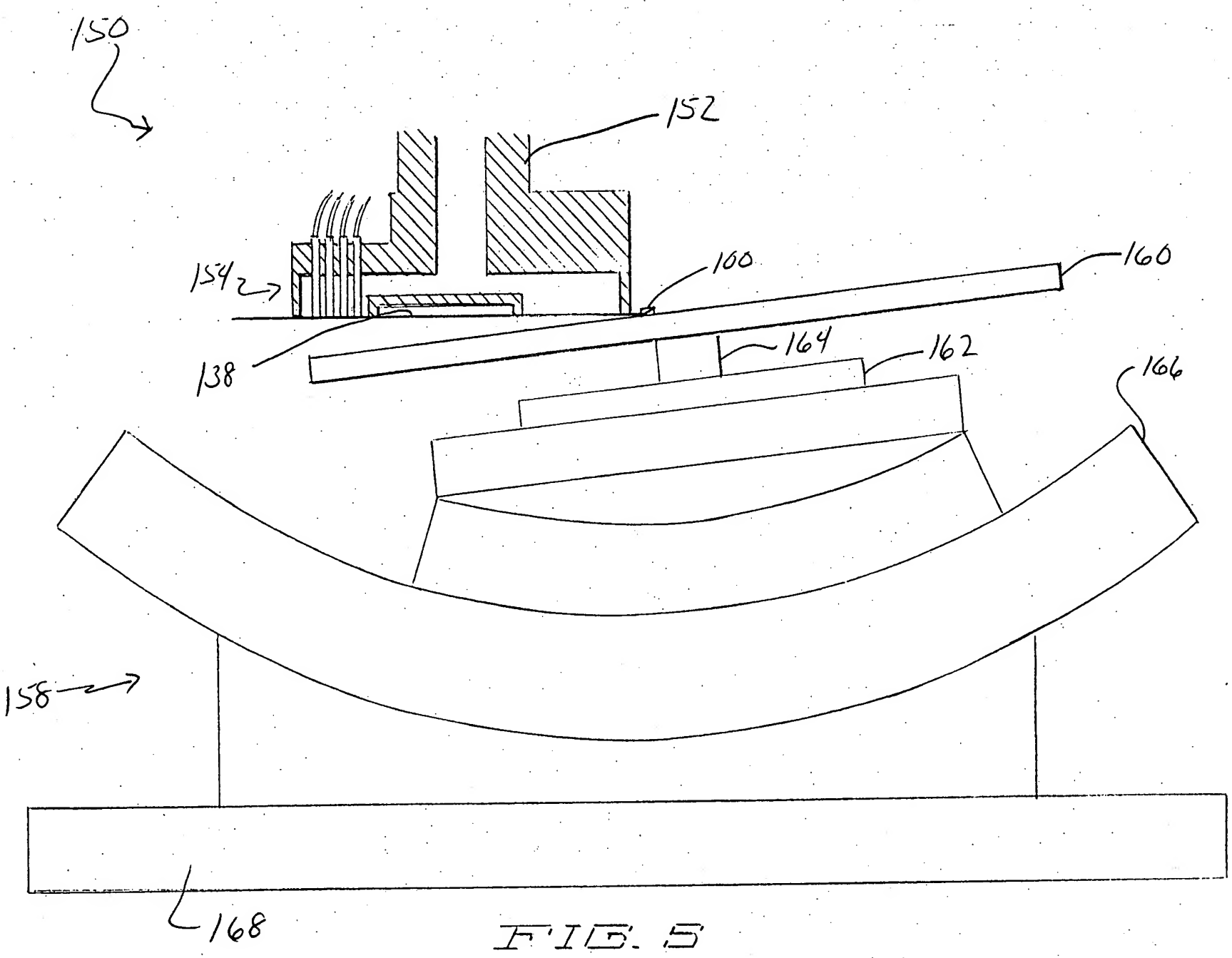

FIG. 5

20112007 0095

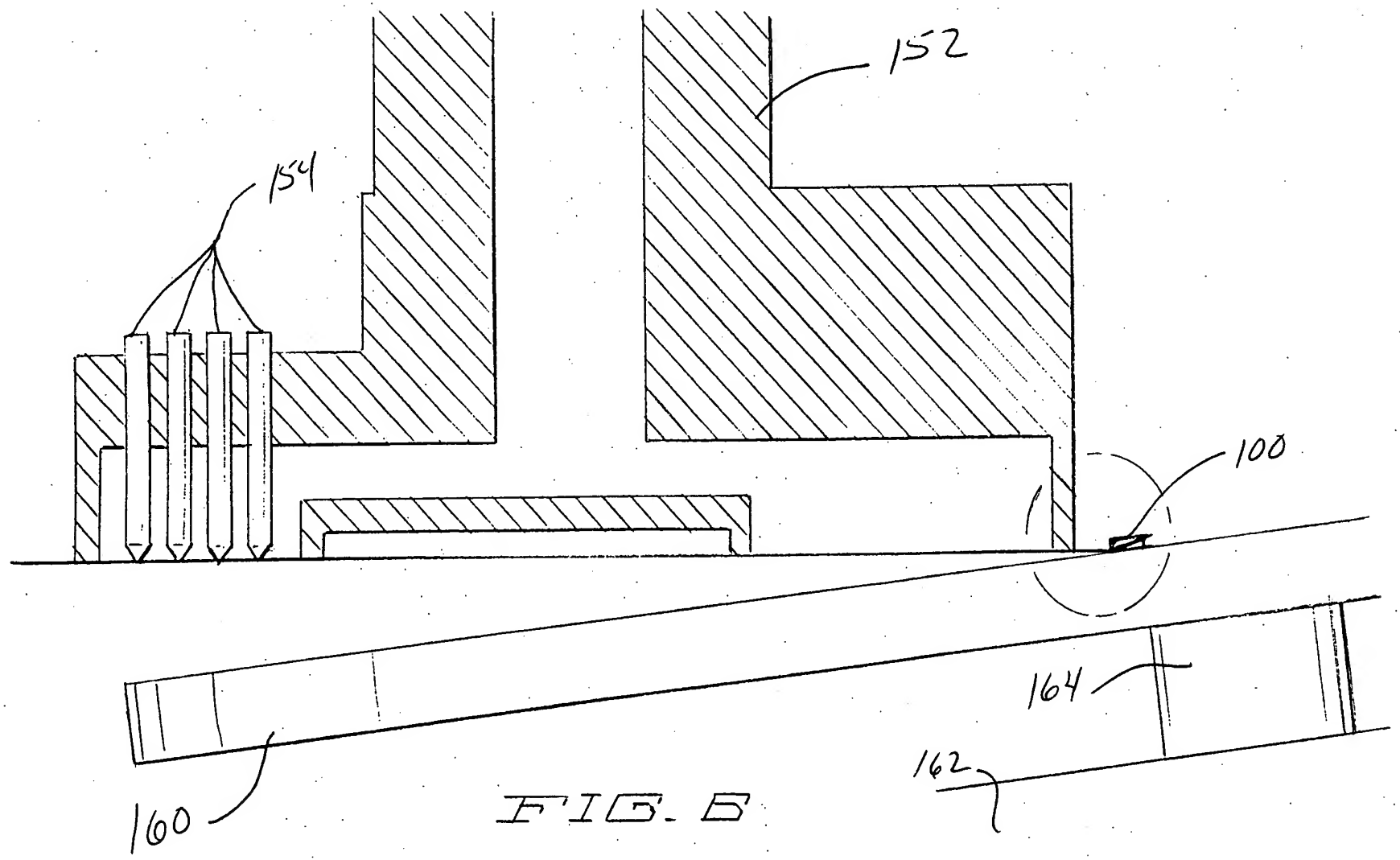

FIG. 6

20T20*0096/001

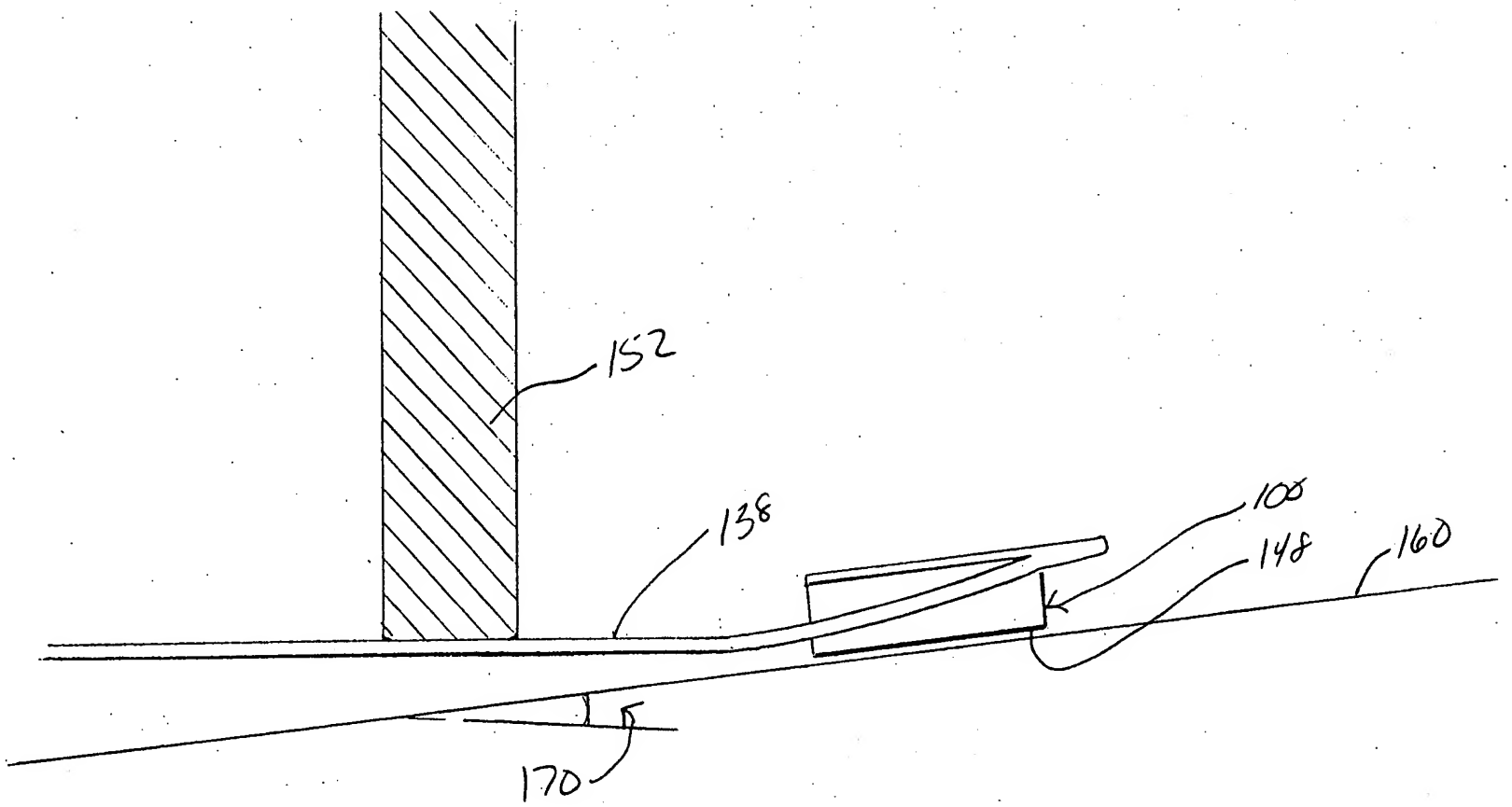

FIG. 7

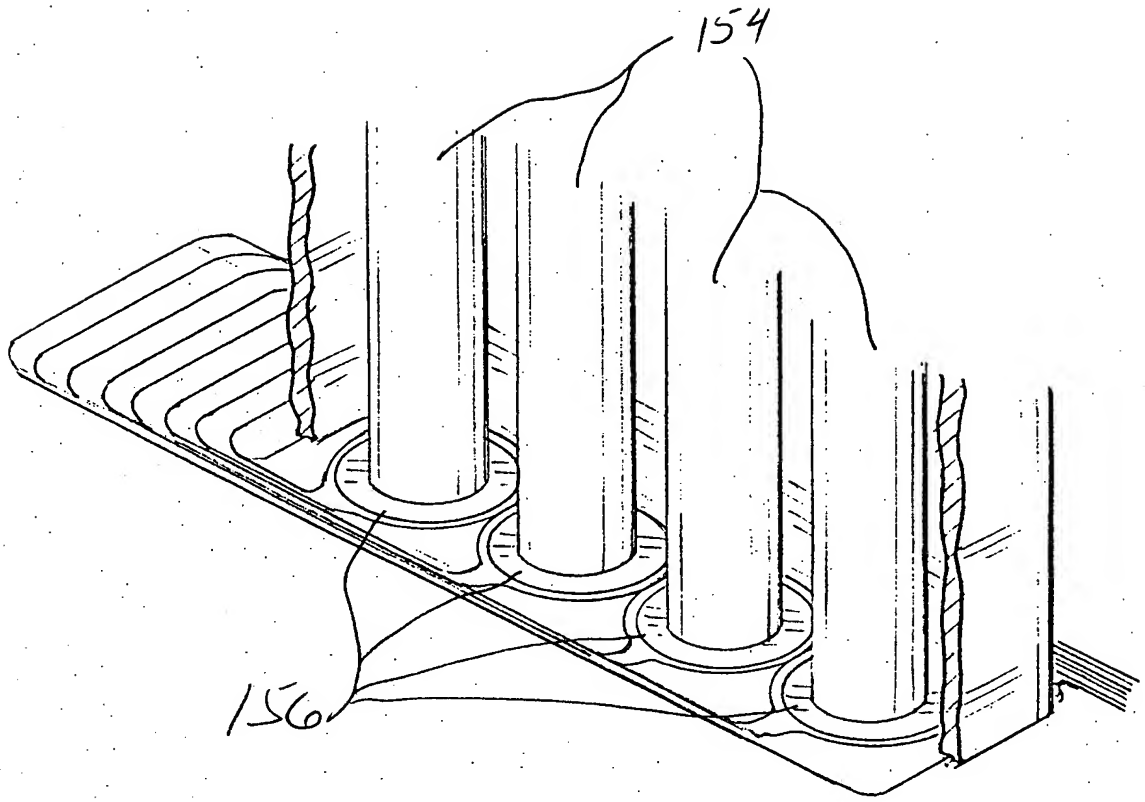

FIG. 8

20F200 0065 0057

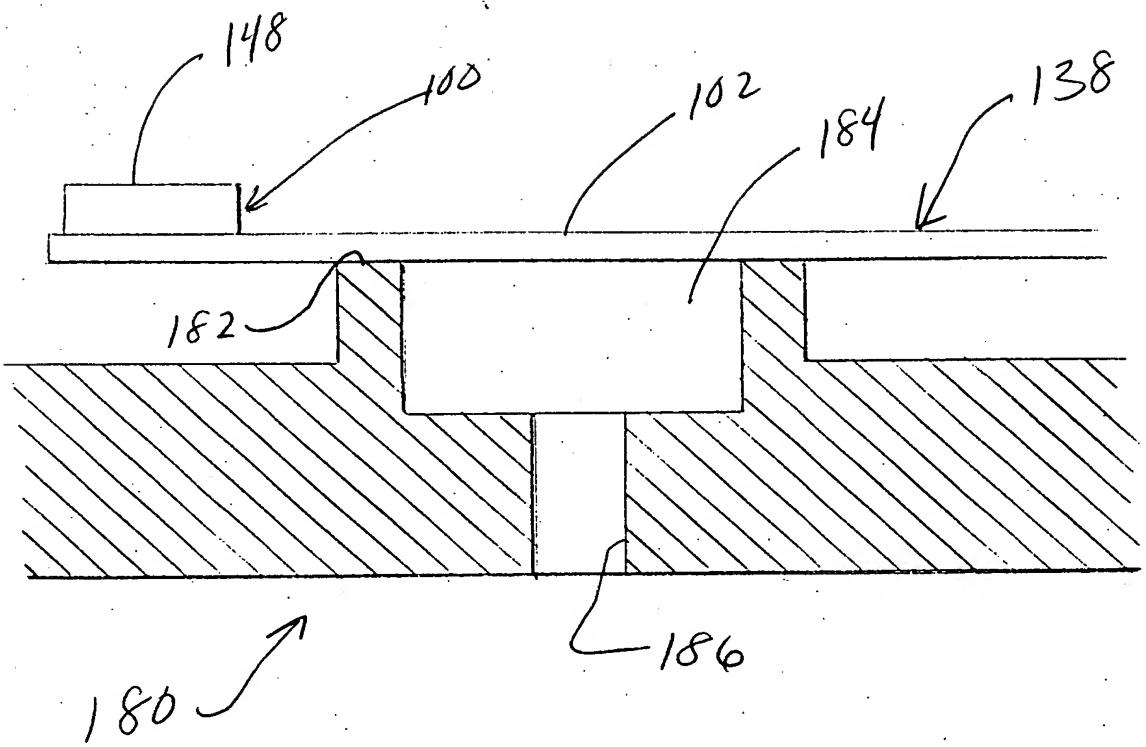

FIG. 9

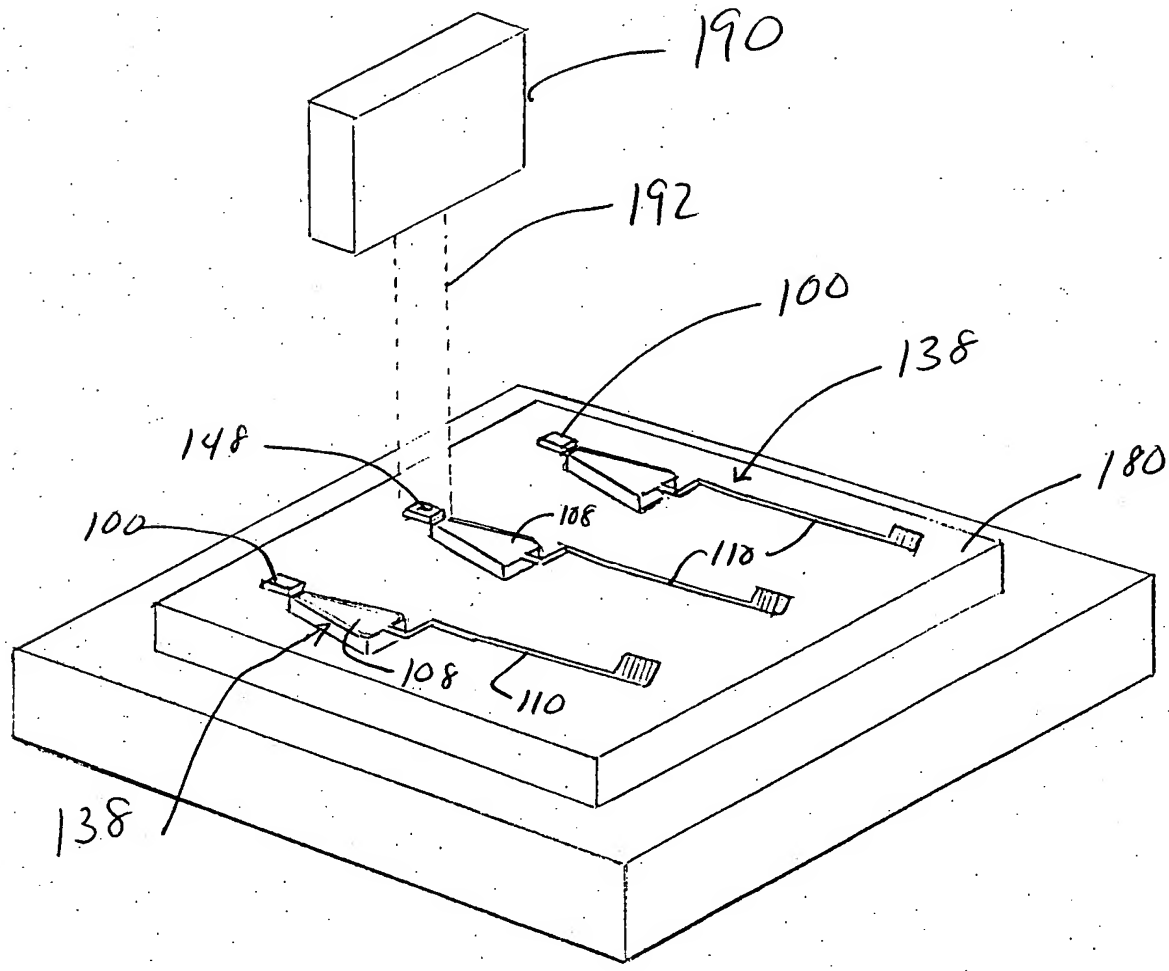

FIG. 10

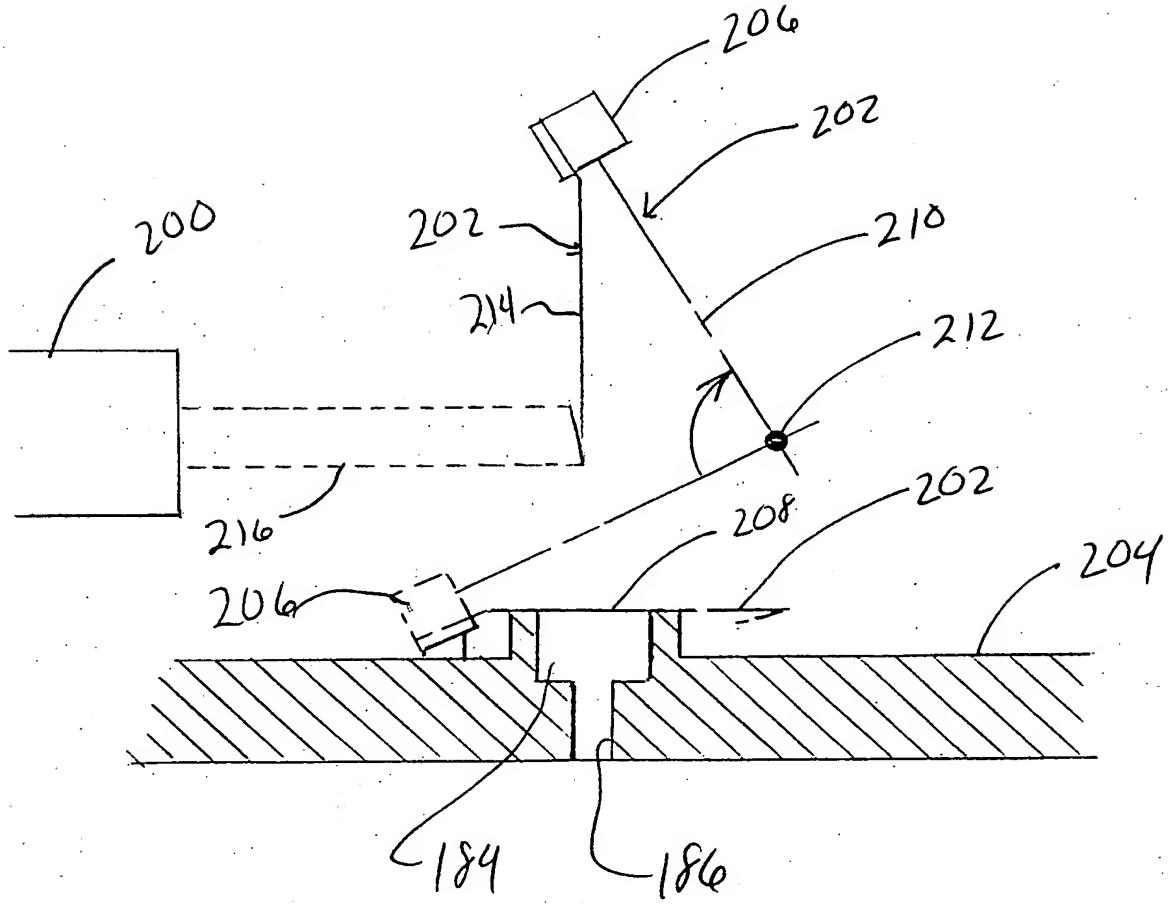

FIG. II

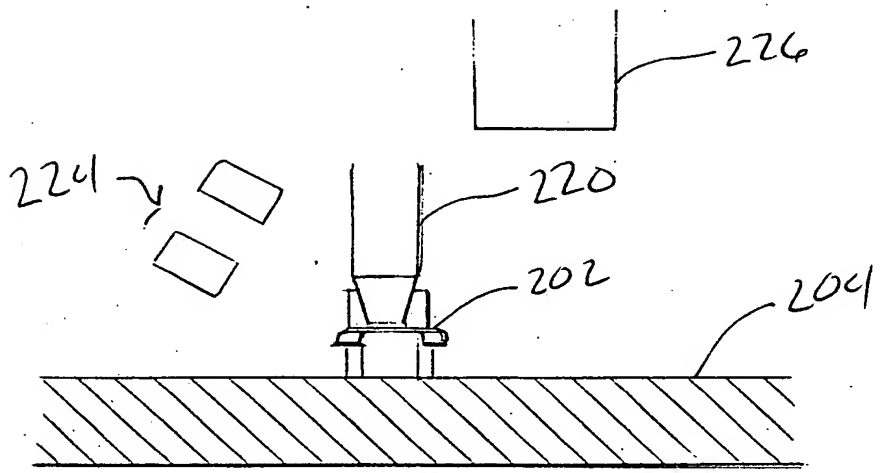

FIG. 12A

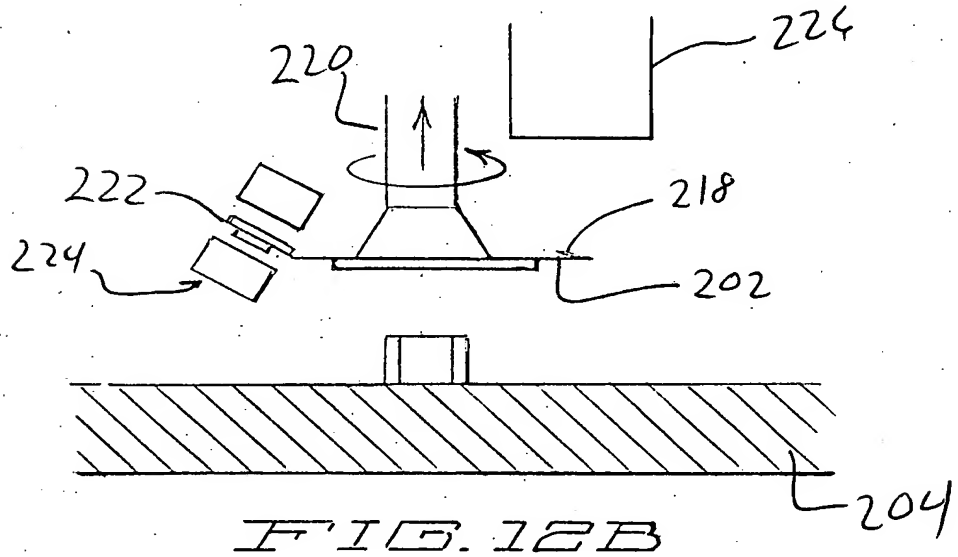

FIG. 12B

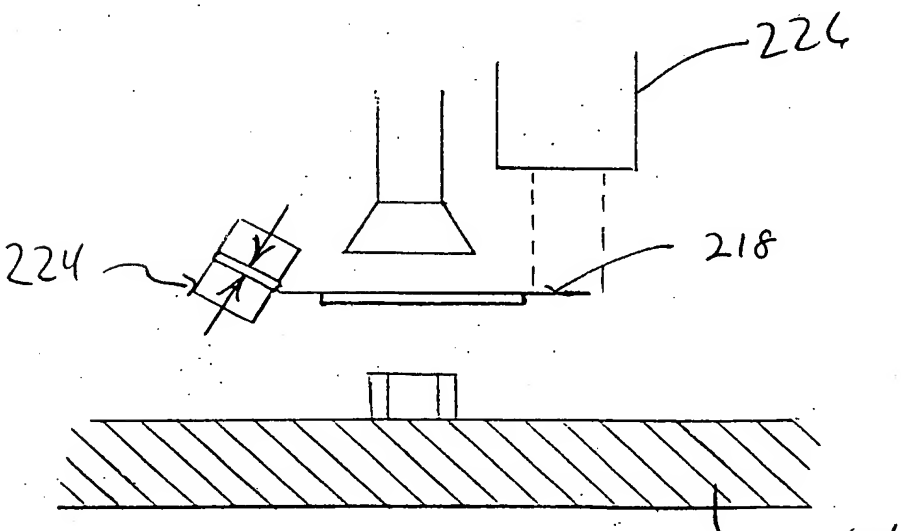

FIG. 12C

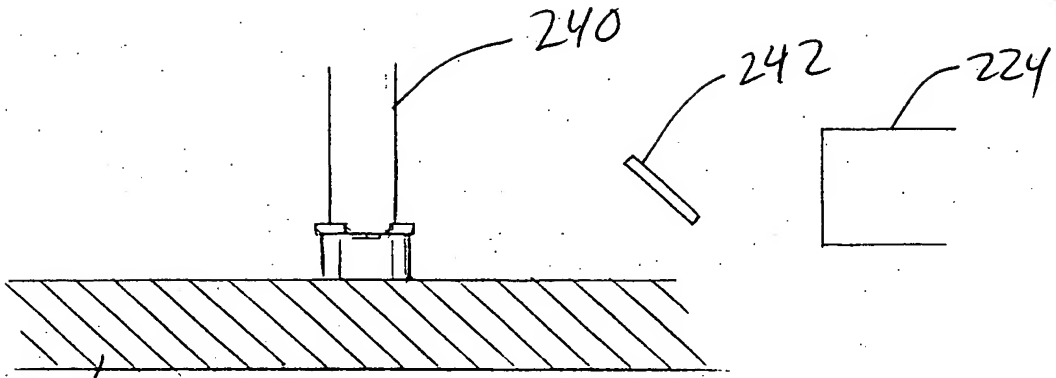

FIG. 10A

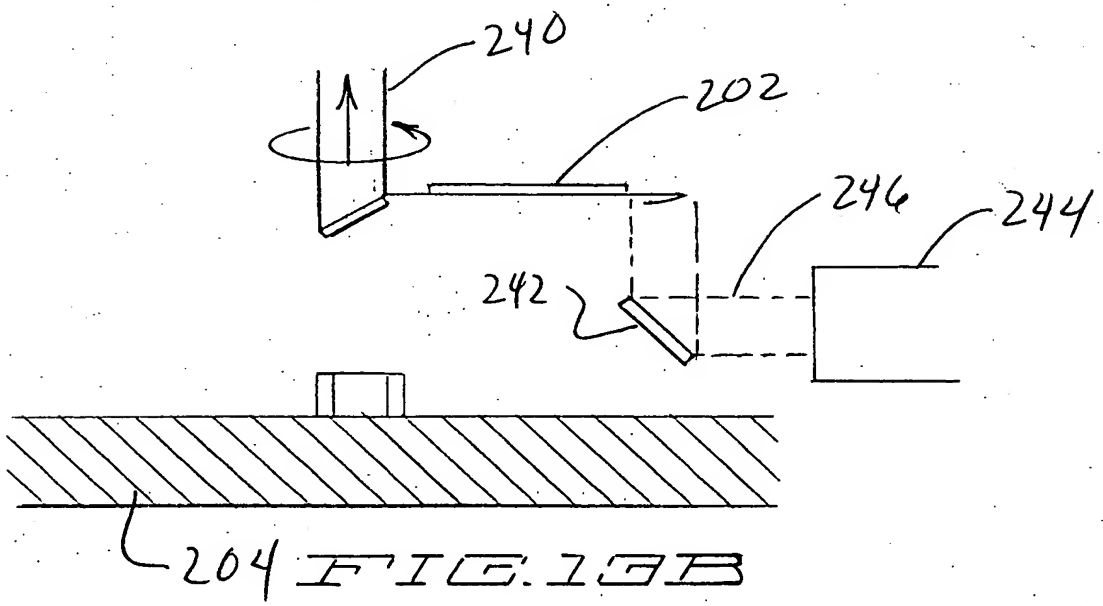

FIG. 10B

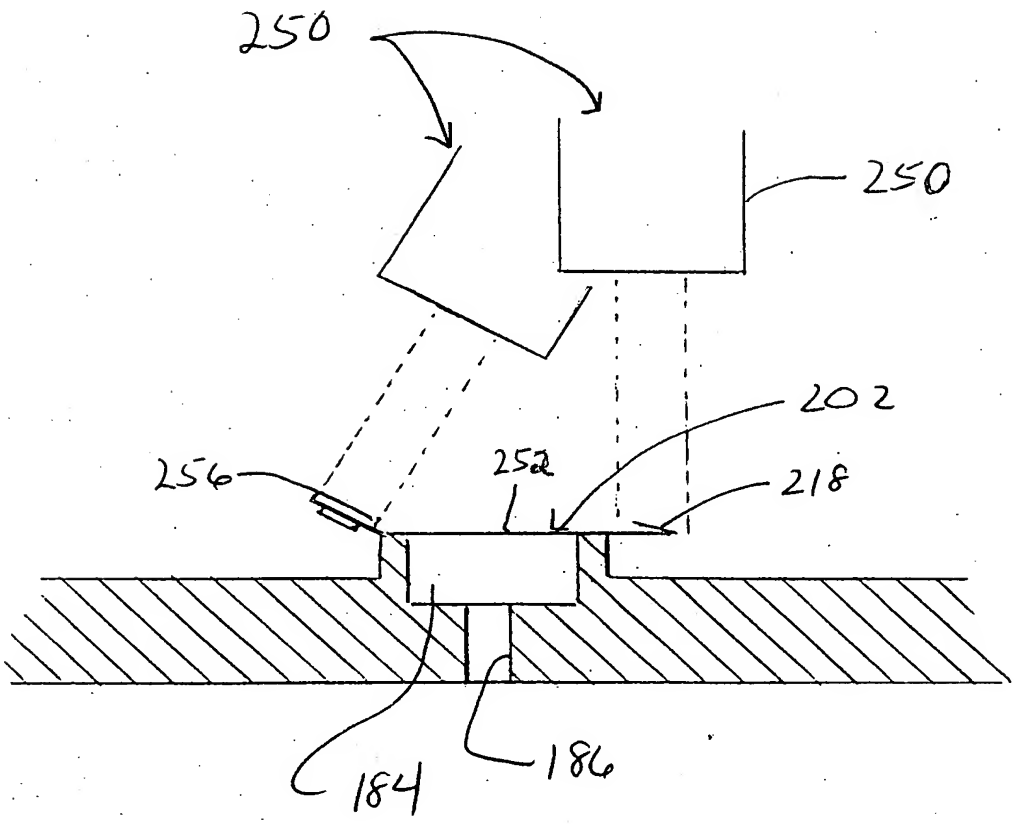

FIG. 14

20120060704

FIG. 15

20120004001

FIG. 1B

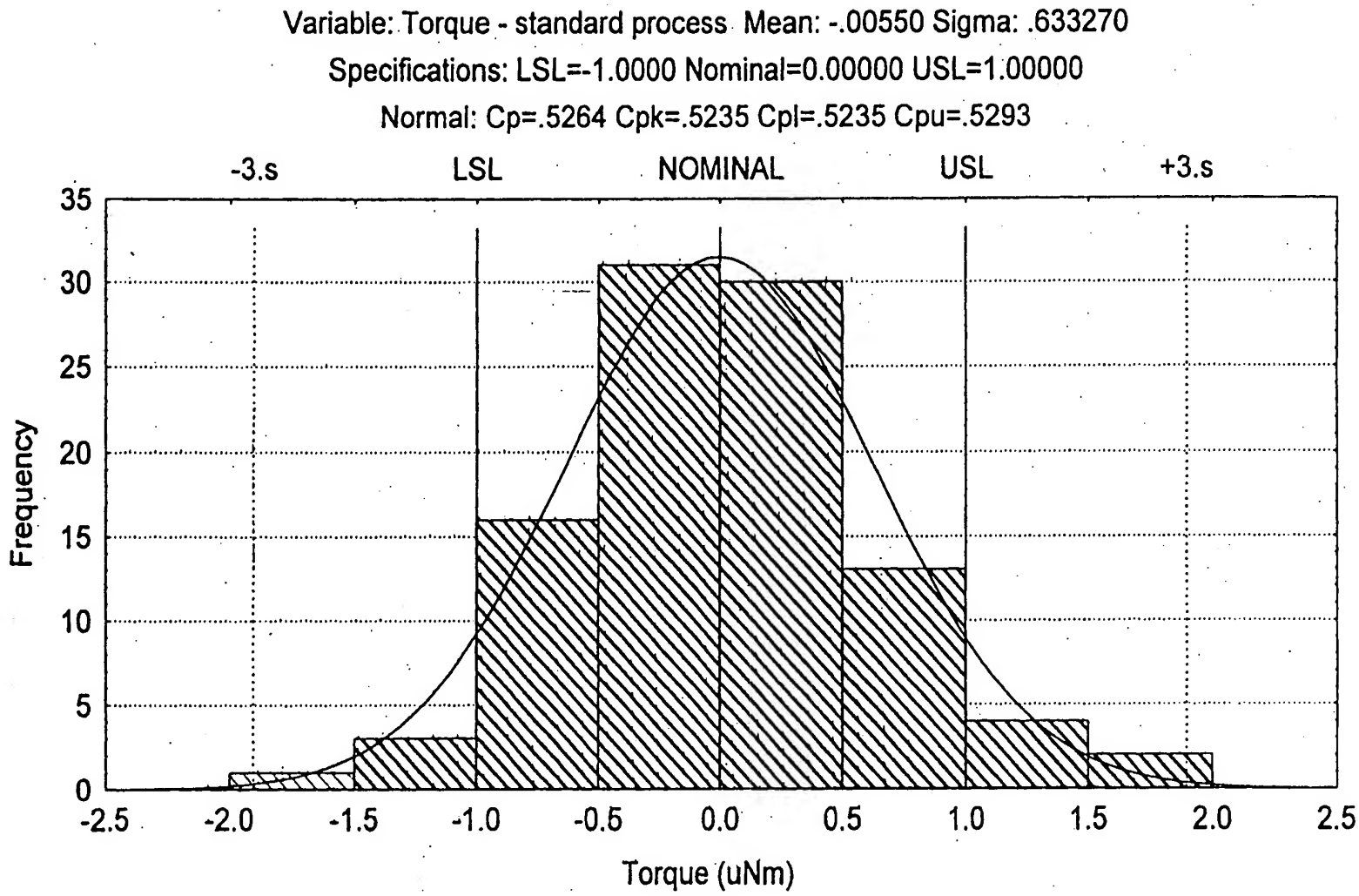
Variable: Torque - standard process Mean: -.00550 Sigma: .633270
Specifications: LSL=-1.0000 Nominal=0.00000 USL=1.00000
Normal: Cp=.5264 Cpk=.5235 Cpl=.5235 Cpu=.5293
-3.s
LSL
NOMINAL
USL
+3.s
Frequency
35
30
25
20
15
10
5
0
-2.5
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
Torque (uNm)

FIG. 17

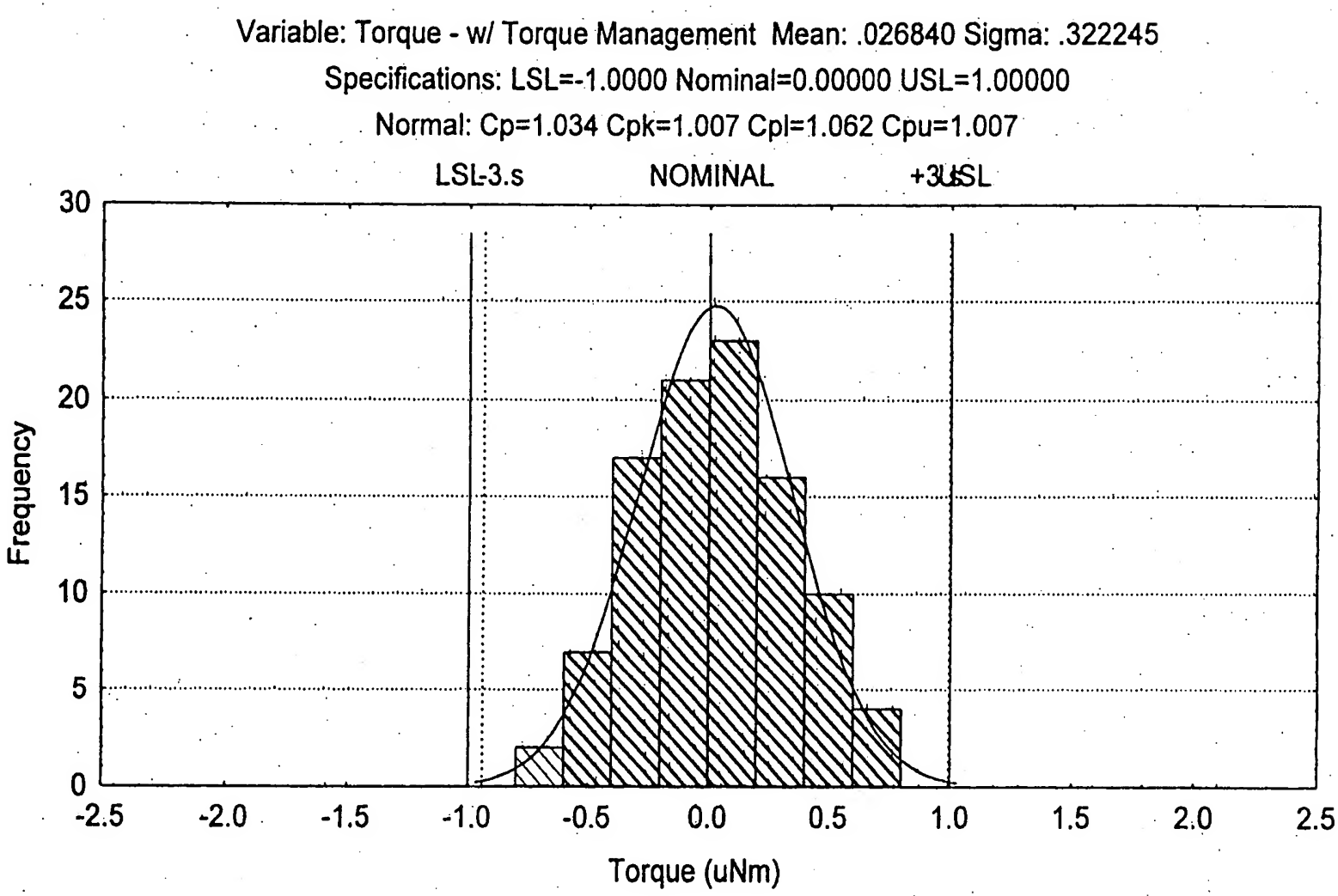
Variable: Torque - w/ Torque Management Mean: .026840 Sigma: .322245
Specifications: LSL=-1.0000 Nominal=0.00000 USL=1.00000
Normal: Cp=1.034 Cpk=1.007 Cpl=1.062 Cpu=1.007
LSL-3.s
NOMINAL
+3USL
Frequency
30
25
20
15
10
5
0
-2.5
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
Torque (uNm)

FIG. 18

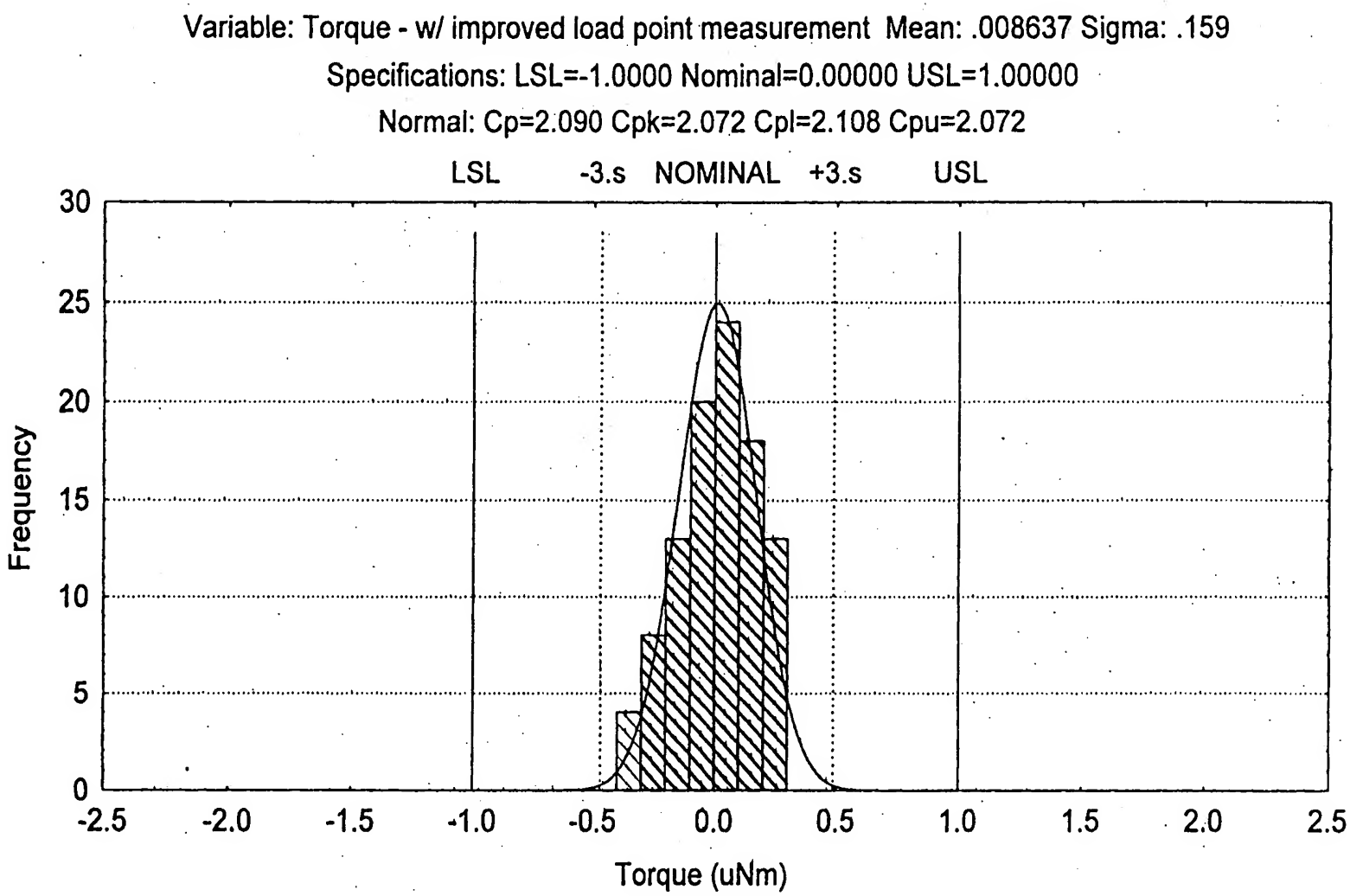
Variable: Torque - w/ improved load point measurement Mean: .008637 Sigma: .159
Specifications: LSL=-1.0000 Nominal=0.00000 USL=1.00000
Normal: Cp=2.090 Cpk=2.072 Cpl=2.108 Cpu=2.072
LSL
-3.s
NOMINAL
+3.s
USL
Frequency
30
25
20
15
10
5
0
-2.5
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
Torque (uNm)

FIG. 19

20120005004

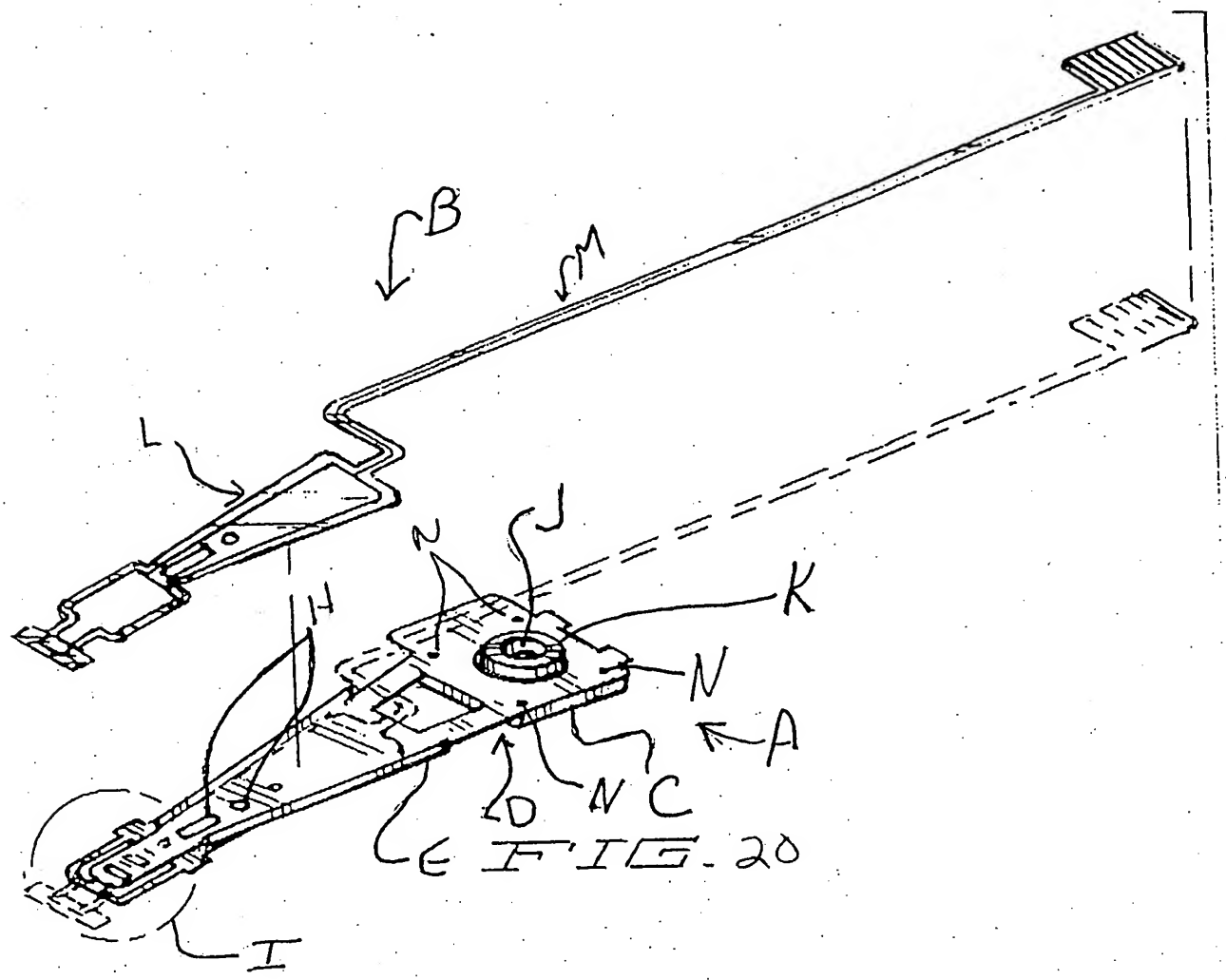

FIG. 20

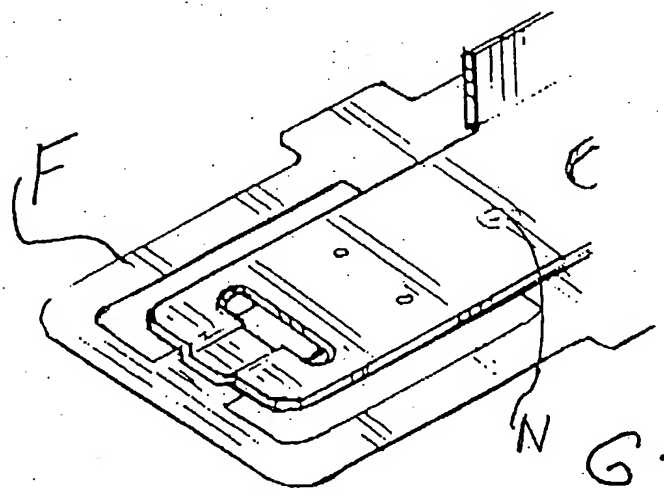

FIG. 21

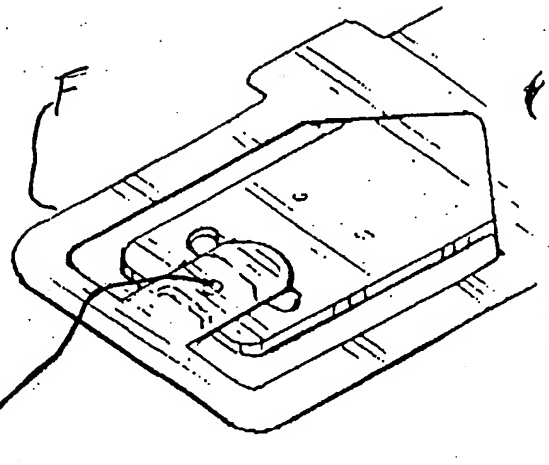

FIG 22